

Title (en)  
OPERATION METHOD FOR IMPROVING PARTIAL LOAD EFFICIENCY IN A GAS TURBINE AND GAS TURBINE WITH IMPROVED PARTIAL LOAD EFFICIENCY

Title (de)  
BETRIEBSVERFAHREN ZUR VERBESSERUNG DER TEILLASTEFFIZIENZ IN EINER GASTURBINE UND GASTURBINE MIT VERBESSERTER TEILLASTEFFIZIENZ

Title (fr)  
PROCÉDÉ DE FONCTIONNEMENT PERMETTANT D'AMÉLIORER L'EFFICACITÉ À CHARGE PARTIELLE D'UNE TURBINE À GAZ ET TURBINE À GAZ D'EFFICACITÉ AMÉLIORÉE À CHARGE PARTIELLE

Publication  
**EP 3256709 B1 20201104 (EN)**

Application  
**EP 16707649 A 20160210**

Priority  
• IT CO20150002 A 20150212  
• EP 2016052848 W 20160210

Abstract (en)  
[origin: WO2016128479A1] The method is used for improving partial load efficiency in a gas turbine engine (1) comprising a compressor (2), burners (3), an high pressure turbine (4) and a low pressure turbine (5); it comprises the step of operating the gas turbine engine by regulating at least: air mass flow rate and flame temperature; regulation is carried out by controlling at least: the air mass flow rate supplied to the combustion chamber from the compressor, and the number of operating burners, and the change in enthalpy drop between the high and low pressure turbine to control the air mass flow rate.

IPC 8 full level  
**F02C 9/18** (2006.01); **F02C 9/22** (2006.01); **F02C 9/52** (2006.01); **F02C 9/54** (2006.01)

CPC (source: EP US)  
**F02C 9/18** (2013.01 - EP US); **F02C 9/22** (2013.01 - EP US); **F02C 9/52** (2013.01 - EP US); **F02C 9/54** (2013.01 - EP US); **F05D 2270/3061** (2013.01 - EP US)

Citation (examination)  
US 2016348690 A1 20161201 - LARSON MARCO [DE], et al

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2016128479 A1 20160818**; AU 2016217888 A1 20170817; AU 2016217888 B2 20200702; BR 112017017305 A2 20180410; BR 112017017305 B1 20221122; EP 3256709 A1 20171220; EP 3256709 B1 20201104; JP 2018513295 A 20180524; JP 6830064 B2 20210217; US 10871109 B2 20201222; US 2018030903 A1 20180201

DOCDB simple family (application)  
**EP 2016052848 W 20160210**; AU 2016217888 A 20160210; BR 112017017305 A 20160210; EP 16707649 A 20160210; JP 2017540685 A 20160210; US 201615549802 A 20160210